







# **Learning Objectives**

- Identify two data sources used to track progress in implementing evidence-based maternity care policies and practices in California
- Discuss the status of maternity practices related to infant feeding and care in California
- Describe infant feeding patterns in California, including breastfeeding initiation, duration and exclusivity
- Discuss the Birth and Beyond California project from implementation, to outcomes, lessons learned and expansion throughout California



- 1. Have a written policy that is routinely communicated with health care staff.
- 2. Train all health care staff in skills necessary to implement policy.
- 3. Inform all pregnant women about the benefits and management of breastfeeding.
- 4. Help mothers initiate breastfeeding within 1 hour of birth.
- 5. Show mothers how to breastfeed and maintain lactation, even if they are separated from their infants.
- 6. Give newborn infants no food or drink other than breast milk, unless medically indicated.
- Practice rooming-in; allow mothers and infants to remain together 24 hours a day.
- 8. Encourage breastfeeding on demand.
- 9. Give no artificial pacifiers to breastfeeding infants.
- 10. Foster the establishment of breastfeeding support groups and refer mother to them on discharge from the hospital.

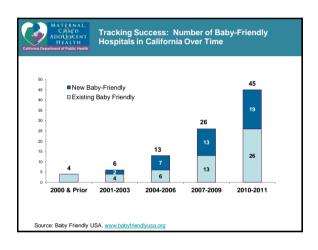


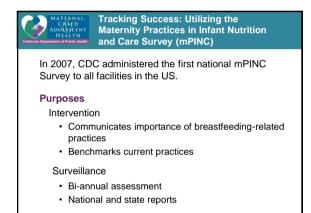


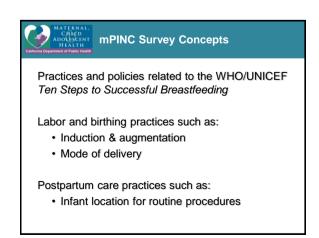


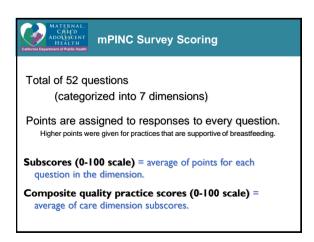


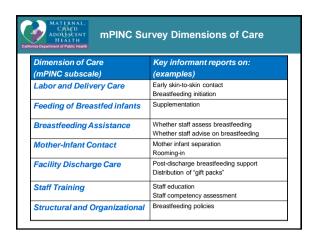
- to post this policy in their perinatal unit or on their hospital website,
- and to routinely communicate this policy to all staff.

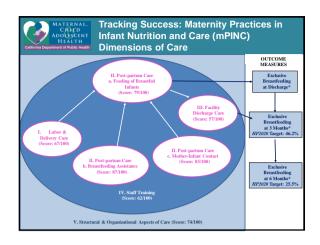


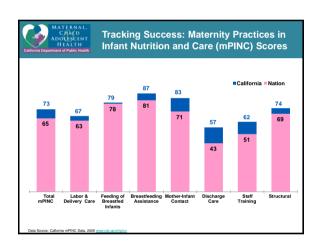


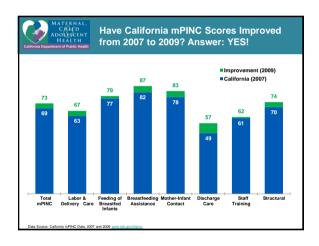




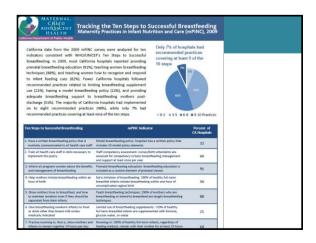


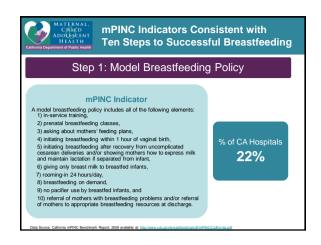


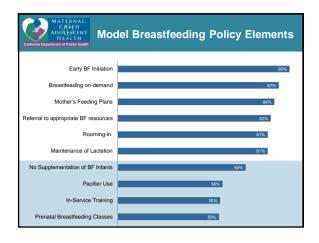


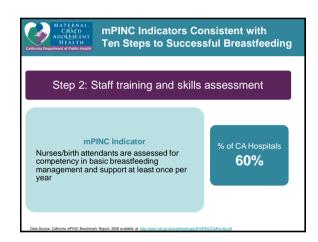


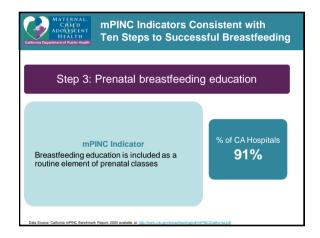


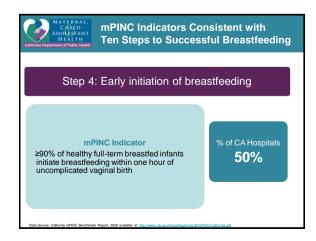


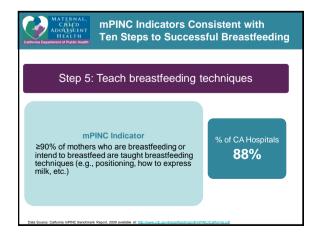


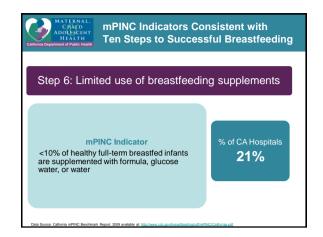


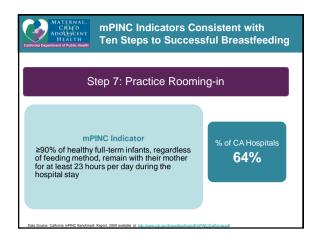


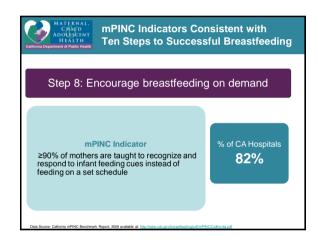


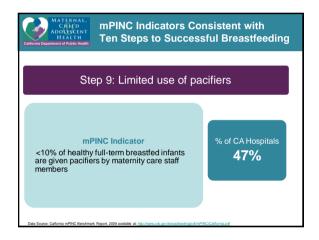


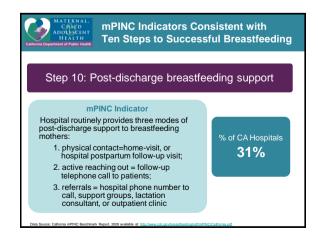


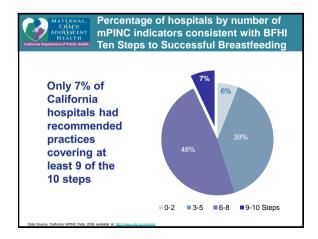














# **Summary of mPINC Results**

 California hospitals perform better than the national average and maternity care practices scores have improved from 2007 to 2009.

Of the Ten Steps to Successful Breastfeeding:

- Most hospitals provide prenatal breastfeeding education (91%), teach breastfeeding techniques (88%) and feeding cues (82%).
- Few hospitals have model breastfeeding policies (22%), limit breastfeeding supplement use (21%), or support mothers post-discharge (31%).
- In 2009, only 7% of California hospitals had recommended practices covering at least nine of 10 indicators.

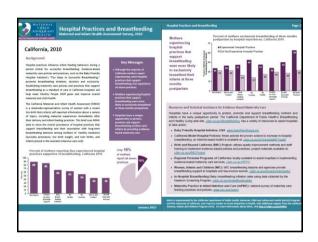
Hospital Practices and Breastfeeding Among Women Delivering "Healthy" Newborns in California, 2010

# Maternal and Infant Health Assessment (MIHA) Survey

For more information about the MIHA Survey, please visit http://cdph.ca.gov/MIHA









## MIHA: Background and Objectives

- Annual survey of California women with a recent live birth implemented in 1999 and funded by the Maternal, Child and Adolescent Health Division and the California Women, Infants and Children (WIC) Division.
- MIHA is implemented in collaboration with the University of California, San Francisco
- Self-administered mail-survey to women sampled from birth certificates (February – May), with telephone follow-up to non-respondents.
- Administered to English and Spanish speaking populations.
- From 1999-2009 response rates have been 70% or greater, with approximately 3,000-3,500 surveys completed annually.
- 2010 collaboration with WIC increased sample size with approximately 7,000 surveys completed.

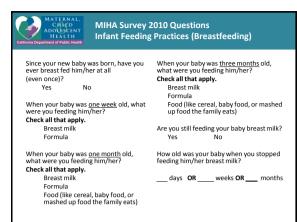


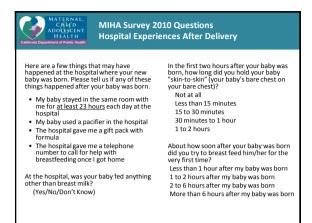
# **Examples of Subject Areas Covered in MIHA**

Questions cover the time period before, during or after pregnancy

- · Breastfeeding (duration, hospital experience, etc.)
- Maternal Weight / Weight Gain
- Food Security
- Folic Acid Use
- · Alcohol/Tobacco Use
- Oral Health
- Mental Health
- Domestic Violence
- Pregnancy Intention / Contraception Use
- · Access to Care / Medi-Cal / WIC
- Social / Economic Indicators

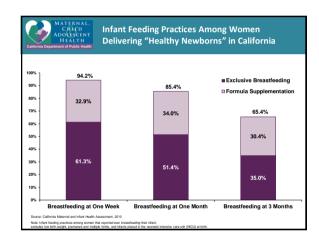


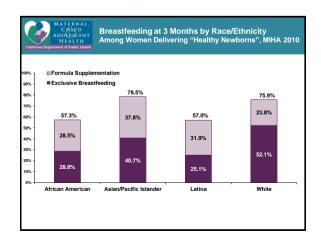


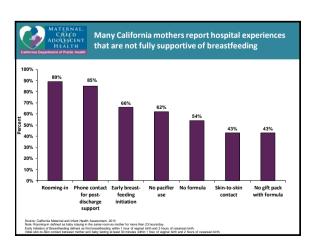


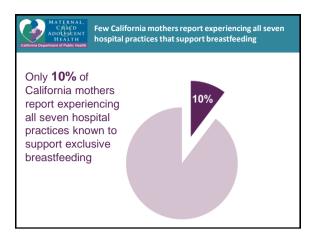
# Definitions: Rooming-in (baby stayed in same room as mom 23 hours/day or more) Early Breastfeeding Initiation (within 1 hour of vaginal birth or 2 hours of c-section birth) Skin-to-Skin Contact (at least 30 minutes within 2 hours of giving birth) No Formula Supplementation (breast milk only while in the hospital) Excludes infants considered to be "at risk": Low birth weight (5 pounds, 8 ounces or less) Premature (less than 37 weeks gestation) Placed in the neonatal intensive care unit (NICU) at birth A multiple birth (twins or other multiples)

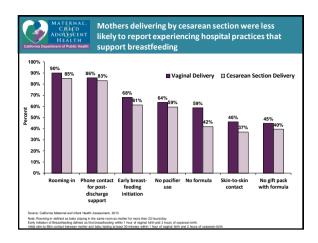
**Hospital Practices and Breastfeeding** 

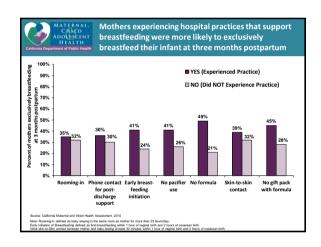


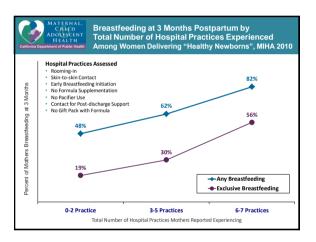












### MATERNAL, CALLED ADOLESCENT HEALTH

# **Summary of MIHA Results**

- Although the majority of California mothers report experiencing some hospital practices that support breastfeeding; few experience all seven practices
- Mothers delivering by cesarean section were less likely to report experiencing hospital practices that support breastfeeding
- Mothers experiencing hospital practices that support breastfeeding were more likely to exclusively breastfeed at three months postpartum



Resources and technical assistance for evidence-based maternity care practices available at: <a href="http://cdph.ca.gov/breastfeeding">http://cdph.ca.gov/breastfeeding</a>

California Model Hospital Policies and Internet-based Toolkit: similar to the BFHI Ten Steps to Successful Breastleeding, these policies list proven actions to increase in-hospital breastleeding, Model Policies and an breastleeding, Model Policies and an implement them are available at: cdph.ca.gov/CAHospitalBFToolkit

Birth and Beyond California (BBC) Project: utilizes quality improvement methods and staff training to implement evidence-based policies and practices that support breastfeeding; all materials necessary to implement this project are available at: <a href="adjhca.gov/BBC/roject">adjhca.gov/BBC/roject</a>

In-Hospital Breastfeeding Data: hospital level breastfeeding initiation rates using infant feeding data collected by the Newborn Screening Program, visit <a href="cdph.ca.gov/breastfeedingdata">cdph.ca.gov/breastfeedingdata</a>

Maternity Practice in Infant Nutrition and Care (mPINC): national survey of maternity care feeding practices and policies at all maternity hospitals in the US, visit <a href="www.cdc.gov/mpinc">www.cdc.gov/mpinc</a>

Regional Perinatal Programs of California: locally available to assist hospitals in implementing evidence-based breastfeeding services, to find your RPPC Coordinator, visit <a href="mailto:cdph.ca.gov/RPPC">cdph.ca.gov/RPPC</a>

Women, Infants and Children (WIC): WIC agencies are important sources of breastfeeding support for low-income women, find a local agency at: <a href="https://www.cdph.ca.gov/programs/wicworks">www.cdph.ca.gov/programs/wicworks</a>

# Tracking In-Hospital Breastfeeding and Formula Supplementation Practices: Newborn Screening Program Data

For more information about in-hospital breastfeeding data, please visit <a href="http://cdph.ca.gov/breastfeedingdata">http://cdph.ca.gov/breastfeedingdata</a>







# In-Hospital Breastfeeding Data Source: Newborn Screening Program Data

- Administered by the Genetic Disease Screening Program
- All nonmilitary hospitals providing maternity services are required to complete the Newborn Screening (NBS) Test form
- Infant feeding data include all feedings since birth to time of specimen collection (usually 24-48 hours since birth)

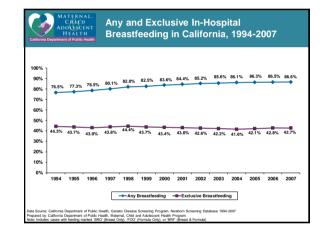


# Methodology for Analyzing In-Hospital Breastfeeding Data

- · Numerator for 'Exclusive Breastfeeding'
  - records marked 'Breast Only'
- · Numerator for 'Any Breastfeeding'
  - records marked 'Breast Only' or 'Breast and Formula'
- Denominator for both Any and Exclusive Breastfeeding
  - excludes records marked 'TPN/Hyperal' or 'Other' and those with unknown method of feeding ('Not Reported')

# New: as of 2008

 excludes cases where infant was in a Neonatal Intensive Care Unit (NICU) at time of specimen collection





# NATIONAL QUALITY FORUM Perinatal Quality Measure on Exclusive Breastfeeding

Exclusive breast milk feeding during a newborn's entire hospitalization.

# **Excluded Populations:**

- · Discharged from hospital while in NICU
- · Parenteral Infusion (TPN)
- Diagnosis of Galactosemia
- · Experienced Death
- Length of Stay > 120 days
- · Enrolled in Clinical Trial
- Documented reason for supplementation

Main, EK. New perinatal quality measures from the National Quality Forum, the Joint Commission and the Leapfrog Group. Curr Opin Obstet Gynecol. 2009 Dec. 21(6):532-40.



# Changes to Data Collection Tool and Data Analyses Methodology: 2008 and 2009

- In 2007, NBS Test form revised (Version C) to more accurately capture all infant feedings, particularly TPN.
- 2008 breastfeeding data analyses limited to data collected on NBS Test Form (Version C); ~93% of all cases
- In 2008, NBS Test Form was once again revised (Version D) to reflect two separate questions on infant feeding:
  - 1) All feeding since birth
  - 2) Newborn on TPN or amino/acids at time of collection
- For 2009, two different versions of the NBS Test Form (Versions C & D) were used by hospitals
- For 2010, nearly all (-99%) data collected on Version D of form, will serve as new baseline for future comparisons and trending of in-hospital breastfeeding practices in California

